

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: _____

Applicant Must Provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/446,677B

DATE: 07/02/2001
TIME: 14:51:17

Input Set : A:\BIRKELUND1.txt
Output Set: N:\CRF3\07022001\I446677B.raw

ENTERED

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: BIRKELUND, Svend
6 CHRISTIANSEN, Gunna
7 HEBSGAARD PEDERSEN, Anna-Sofie
8 MYGIND, Per
9 KNUDSEN, Katrine
11 (ii) TITLE OF INVENTION: SURFACE EXPOSED PROTEINS FROM CHLAMYDIA
12 PNEUMONIAE
14 (iii) NUMBER OF SEQUENCES: 30
16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
18 (B) STREET: 624 Ninth Street, N.W., Suite 300
19 (C) CITY: Washington
20 (D) STATE: D.C.
21 (E) COUNTRY: USA
22 (F) ZIP: 20001

24 (v) COMPUTER READABLE FORM:
25 (A) MEDIUM TYPE: Floppy disk
26 (B) COMPUTER: IBM PC compatible
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/09/446,677B
C--> 32 (B) FILING DATE: 24-Mar-2000

C--> 38 (vii) PRIOR APPLICATION DATA:
35 (A) APPLICATION NUMBER: PCT/DK98/00266
36 (B) FILING DATE: 19-JUN-1998
39 (A) APPLICATION NUMBER: DK 0744/97
40 (B) FILING DATE: 23-JUN-1997

42 (viii) ATTORNEY/AGENT INFORMATION:
43 (A) NAME: COOPER, Iver P.
44 (B) REGISTRATION NUMBER: 28,005
45 (C) REFERENCE/DOCKET NUMBER: BIRKELUND=1

47 (ix) TELECOMMUNICATION INFORMATION:
48 (A) TELEPHONE: 202-628-5197
49 (B) TELEFAX: 202-737-3528

51 (2) INFORMATION FOR SEQ ID NO: 1:
53 (i) SEQUENCE CHARACTERISTICS:
54 (A) LENGTH: 3200 base pairs
55 (B) TYPE: nucleic acid
56 (C) STRANDEDNESS: single
57 (D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: cDNA
61 (ix) FEATURE:
62 (A) NAME/KEY: Coding Sequence
63 (B) LOCATION: 205...2988

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64 (D) OTHER INFORMATION:
66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
68 CAATGTCGAA GAGAGCACTA ACCAGGAAAA TTGCGATTTC ATAAACCCAC TTTATTATTA 60
69 AATTCTTACT TGCCTCATAT AAAATAGAAA ACTCAGAGAG TCAAGATAAA AATTCTTGAC 120
70 AGCTGTTTG TCATCTTAA CTTGATTTAC TTATTTGTT TCTATATTGA TGCGAATAGT 180
71 TCTCTAAAAA ACAAAAGCAT TACC ATG AAG ACT TCG ATT CCT TGG GTT TTA 231
72 Met Lys Thr Ser Ile Pro Trp Val Leu
73 1 5
75 GTT TCC TCC GTG TTA GCT TTC TCA TGT CAC CTA CAG TCA CTA GCT AAC 279
76 Val Ser Ser Val Leu Ala Phe Ser Cys His Leu Gln Ser Leu Ala Asn
77 10 15 20 25
79 GAG GAA CTT TTA TCA CCT GAT GAT AGC TTT AAT GGA AAT ATC GAT TCA 327
80 Glu Glu Leu Leu Ser Pro Asp Asp Ser Phe Asn Gly Asn Ile Asp Ser
81 30 35 40
83 GGA ACG TTT ACT CCA AAA ACT TCA GCC ACA ACA TAT TCT CTA ACA GGA 375
84 Gly Thr Phe Thr Pro Lys Thr Ser Ala Thr Thr Tyr Ser Leu Thr Gly
85 45 50 55
87 GAT GTC TTC TTT TAC GAG CCT GGA AAA GGC ACT CCC TTA TCT GAC AGT 423
88 Asp Val Phe Phe Tyr Glu Pro Gly Lys Gly Thr Pro Leu Ser Asp Ser
89 60 65 70
91 TGT TTT AAG CAA ACC ACG GAC AAT CTT ACC TTC TTG GGG AAC GGT CAT 471
92 Cys Phe Lys Gln Thr Thr Asp Asn Leu Thr Phe Leu Gly Asn Gly His
93 75 80 85
95 AGC TTA ACG TTT GGC TTT ATA GAT GCT GGC ACT CAT GCA GGT GCT GCT 519
96 Ser Leu Thr Phe Gly Phe Ile Asp Ala Gly Thr His Ala Gly Ala Ala
97 90 95 100 105
99 GCA TCT ACA ACA GCA AAT AAG AAT CTT ACC TTC TCA GGG TTT TCC TTA 567
100 Ala Ser Thr Thr Ala Asn Lys Asn Leu Thr Phe Ser Gly Phe Ser Leu
101 110 115 120
103 CTG AGT TTT GAT TCC TCT CCT AGC ACA ACG GTT ACT ACA GGT CAG GGA 615
104 Leu Ser Phe Asp Ser Ser Pro Ser Thr Thr Val Thr Thr Gly Gln Gly
105 125 130 135
107 ACG CTT TCC TCA GCA GGA GGC GTA AAT TTA GAA AAT ATT CGT AAA CTT 663
108 Thr Leu Ser Ser Ala Gly Gly Val Asn Leu Glu Asn Ile Arg Lys Leu
109 140 145 150
111 GTA GTT GCT GGG AAT TTT TCT ACT GCA GAT GGT GGA GCT ATC AAA GGA 711
112 Val Val Ala Gly Asn Phe Ser Thr Ala Asp Gly Gly Ala Ile Lys Gly
113 155 160 165
117 GCG TCT TTC CTT TTA ACT GGC ACT TCT GGA GAT GCT CTT TTT AGT AAC 759
118 Ala Ser Phe Leu Leu Thr Gly Thr Ser Gly Asp Ala Leu Phe Ser Asn
119 170 175 180 185
121 AAC TCT TCA TCA ACA AAG GGA GGA GCA ATT GCT ACT ACA GCA GGC GCT 807
122 Asn Ser Ser Ser Thr Lys Gly Gly Ala Ile Ala Thr Thr Ala Gly Ala
123 190 195 200
125 CGC ATA GCA AAT AAC ACA GGT TAT GTT AGA TTC CTA TCT AAC ATA GCG 855
126 Arg Ile Ala Asn Asn Thr Gly Tyr Val Arg Phe Leu Ser Asn Ile Ala
127 205 210 215
129 TCT ACG TCA GGA GGC GCT ATC GAT GAT GAA GGC ACG TCG ATA CTA TCG 903
130 Ser Thr Ser Gly Gly Ala Ile Asp Asp Glu Gly Thr Ser Ile Leu Ser

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Input Set : A:\BIRKELUND1.txt
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131	220	225	230	
133	AAC AAC AAA TTT CTA TAT TTT GAA GGG AAT GCA GCG AAA ACT ACT GGC			951
134	Asn Asn Lys Phe Leu Tyr Phe Glu Gly Asn Ala Ala Lys Thr Thr Gly			
135	235	240	245	
137	GGT GCG ATC TGC AAC ACC AAG GCG AGT GGA TCT CCT GAA CTG ATA ATC			999
138	Gly Ala Ile Cys Asn Thr Lys Ala Ser Gly Ser Pro Glu Leu Ile Ile			
139	250	255	260	265
141	TCT AAC AAT AAG ACT CTG ATC TTT GCT TCA AAC GTA GCA GAA ACA AGC			1047
142	Ser Asn Asn Lys Thr Leu Ile Phe Ala Ser Asn Val Ala Glu Thr Ser			
143	270	275	280	
145	GGT GCC GCC ATC CAT GCT AAA AAG CTA GCC CTT TCC TCT GGA GGC TTT			1095
146	Gly Gly Ala Ile His Ala Lys Lys Leu Ala Leu Ser Ser Gly Gly Phe			
147	285	290	295	
149	ACA GAG TTT CTA CGA AAT AAT GTC TCA TCA GCA ACT CCT AAG GGG GGT			1143
150	Thr Glu Phe Leu Arg Asn Asn Val Ser Ser Ala Thr Pro Lys Gly Gly			
151	300	305	310	
153	GCT ATC AGC ATC GAT GCC TCA GGA GAG CTC AGT CTT TCT GCA GAG ACA			1191
154	Ala Ile Ser Ile Asp Ala Ser Gly Glu Leu Ser Leu Ser Ala Glu Thr			
155	315	320	325	
157	GGA AAC ATT ACC TTT GTA AGA AAT ACC CTT ACA ACA ACC GGA AGT ACC			1239
158	Gly Asn Ile Thr Phe Val Arg Asn Thr Leu Thr Thr Gly Ser Thr			
159	330	335	340	345
161	GAT ACT CCT AAA CGT AAT GCG ATC AAC ATA GGA AGT AAC GGG AAA TTC			1287
162	Asp Thr Pro Lys Arg Asn Ala Ile Asn Ile Gly Ser Asn Gly Lys Phe			
163	350	355	360	
165	ACG GAA TTA CGG GCT GCT AAA AAT CAT ACA ATT TTC TTC TAT GAT CCC			1335
166	Thr Glu Leu Arg Ala Ala Lys Asn His Thr Ile Phe Phe Tyr Asp Pro			
167	365	370	375	
169	ATC ACT TCA GAA GGA ACC TCA TCA GAC GTC TTG AAG ATA AAT AAC GGC			1383
170	Ile Thr Ser Glu Gly Thr Ser Ser Asp Val Leu Lys Ile Asn Asn Gly			
171	380	385	390	
175	TCT GCG GGA GCT CTC AAT CCA TAT CAA GGA ACG ATT CTA TTT TCT GGA			1431
176	Ser Ala Gly Ala Leu Asn Pro Tyr Gln Gly Thr Ile Leu Phe Ser Gly			
177	395	400	405	
179	GAA ACC CTA ACA GCA GAT GAA CTT AAA GTT GCT GAC AAT TTA AAA TCT			1479
180	Glu Thr Leu Thr Ala Asp Glu Leu Lys Val Ala Asp Asn Leu Lys Ser			
181	410	415	420	425
183	TCA TTC ACG CAG CCA GTC TCC CTA TCC GGA GGA AAG TTA TTG CTA CAA			1527
184	Ser Phe Thr Gln Pro Val Ser Leu Ser Gly Gly Lys Leu Leu Gln			
185	430	435	440	
187	AAG GGA GTC ACT TTA GAG AGC ACG AGC TTC TCT CAA GAG GCC GGT TCT			1575
188	Lys Gly Val Thr Leu Glu Ser Thr Ser Phe Ser Gln Glu Ala Gly Ser			
189	445	450	455	
191	CTC CTC GGC ATG GAT TCA GGA ACG ACA TTA TCA ACT ACA GCT GGG AGT			1623
192	Leu Leu Gly Met Asp Ser Gly Thr Thr Leu Ser Thr Thr Ala Gly Ser			
193	460	465	470	
195	ATT ACA ATC ACG AAC CTA GGA ATC AAT GTT GAC TCC TTA GGT CTT AAG			1671
196	Ile Thr Ile Thr Asn Leu Gly Ile Asn Val Asp Ser Leu Gly Leu Lys			
197	475	480	485	

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199	CAG CCC GTC AGC CTA ACA GCA AAA GGT GCT TCA AAT AAA GTG ATC GTA	1719
200	Gln Pro Val Ser Leu Thr Ala Lys Gly Ala Ser Asn Lys Val Ile Val	
201	490 495 500 505	
203	TCT GGG AAG CTC AAC CTG ATT GAT ATT GAA GGG AAC ATT TAT GAA AGT	1767
204	Ser Gly Lys Leu Asn Leu Ile Asp Ile Glu Gly Asn Ile Tyr Glu Ser	
205	510 515 520	
207	CAT ATG TTC AGC CAT GAC CAG CTC TTC TCT CTA TTA AAA ATC ACG GTT	1815
208	His Met Phe Ser His Asp Gln Leu Phe Ser Leu Leu Lys Ile Thr Val	
209	525 530 535	
211	GAT GCT GAT GTT GAT ACT AAC GTT GAC ATC AGC AGC CTT ATC CCT GTT	1863
212	Asp Ala Asp Val Asp Thr Asn Val Asp Ile Ser Ser Leu Ile Pro Val	
213	540 545 550	
215	CCT GCT GAG GAT CCT AAT TCA GAA TAC GGA TTC CAA GGA CAA TGG AAT	1911
216	Pro Ala Glu Asp Pro Asn Ser Glu Tyr Gly Phe Gln Gly Gln Trp Asn	
217	555 560 565	
219	GTT AAT TGG ACT ACG GAT ACA GCT ACA AAT ACA AAA GAG GCC ACG GCA	1959
220	Val Asn Trp Thr Thr Asp Thr Ala Thr Asn Thr Lys Glu Ala Thr Ala	
221	570 575 580 585	
223	ACT TGG ACC AAA ACA GGA TTT GTT CCC AGC CCC GAA AGA AAA TCT GCG	2007
224	Thr Trp Thr Lys Thr Gly Phe Val Pro Ser Pro Glu Arg Lys Ser Ala	
225	590 595 600	
227	TTA GTA TGC AAT ACC CTA TGG GGA GTC TTT ACT GAC ATT CGC TCT CTG	2055
228	Leu Val Cys Asn Thr Leu Trp Gly Val Phe Thr Asp Ile Arg Ser Leu	
229	605 610 615	
233	CAA CAG CTT GTA GAG ATC GGC GCA ACT GGT ATG GAA CAC AAA CAA GGT	2103
234	Gln Gln Leu Val Glu Ile Gly Ala Thr Gly Met Glu His Lys Gln Gly	
235	620 625 630	
237	TTC TGG GTT TCC TCC ATG ACG AAC TTC CTG CAT AAG ACT GGA GAT GAA	2151
238	Phe Trp Val Ser Ser Met Thr Asn Phe Leu His Lys Thr Gly Asp Glu	
239	635 640 645	
241	AAT CGC AAA GGC TTC CGT CAT ACC TCT GGA GGC TAC GTC ATC GGT GGA	2199
242	Asn Arg Lys Gly Phe Arg His Thr Ser Gly Gly Tyr Val Ile Gly Gly	
243	650 655 660 665	
245	AGT GCT CAC ACT CCT AAA GAC GAC CTA TTT ACC TTT GCG TTC TGC CAT	2247
246	Ser Ala His Thr Pro Lys Asp Asp Leu Phe Thr Phe Ala Phe Cys His	
247	670 675 680	
249	CTC TTT GCT AGA GAC AAA GAT TGT TTT ATC GCT CAC AAC AAC TCT AGA	2295
250	Leu Phe Ala Arg Asp Lys Asp Cys Phe Ile Ala His Asn Asn Ser Arg	
251	685 690 695	
253	ACC TAC GGT GGA ACT TTA TTC AAG CAC TCT CAT ACC CTA CAA CCC	2343
254	Thr Tyr Gly Gly Thr Leu Phe Phe Lys His Ser His Thr Leu Gln Pro	
255	700 705 710	
257	CAA AAC TAT TTG AGA TTA GGA AGA GCA AAG TTT TCT GAA TCA GCT ATA	2391
258	Gln Asn Tyr Leu Arg Leu Gly Arg Ala Lys Phe Ser Glu Ser Ala Ile	
259	715 720 725	
261	GAA AAA TTC CCT AGG GAA ATT CCC CTA GCC TTG GAT GTC CAA GTT TCG	2439
262	Glu Lys Phe Pro Arg Glu Ile Pro Leu Ala Leu Asp Val Gln Val Ser	
263	730 735 740 745	
265	TTC AGC CAT TCA GAC AAC CGT ATG GAA ACG CAC TAT ACC TCA TTG CCA	2487

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/446,677B

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Input Set : A:\BIRKELUND1.txt
Output Set: N:\CRF3\07022001\I446677B.raw

266	Phe	Ser	His	Ser	Asp	Asn	Arg	Met	Glu	Thr	His	Tyr	Thr	Ser	Leu	Pro	
267								750			755					760	
269	GAA	TCC	GAA	GGT	TCT	TGG	AGC	AAC	GAG	TGT	ATA	GCT	GGT	GGT	ATC	GGC	2535
270	Glu	Ser	Glu	Gly	Ser	Trp	Ser	Asn	Glu	Cys	Ile	Ala	Gly	Gly	Ile	Gly	
271									765		770				775		
273	CTA	GAC	CTT	CCT	TTT	GTT	CTT	TCC	AAC	CCA	CAT	CCT	CTT	TTC	AAG	ACC	2583
274	Leu	Asp	Leu	Pro	Phe	Val	Leu	Ser	Asn	Pro	His	Pro	Leu	Phe	Lys	Thr	
275									780		785			790			
277	TTC	ATT	CCA	CAG	ATG	AAA	GTC	GAA	ATG	GTT	TAT	GTA	TCA	CAA	AAT	AGC	2631
278	Phe	Ile	Pro	Gln	Met	Lys	Val	Glu	Met	Val	Tyr	Val	Ser	Gln	Asn	Ser	
279								795		800			805				
281	TTC	TTC	GAA	AGC	TCT	AGT	GAT	GGC	CGT	GGT	TTT	AGT	ATT	GGA	AGG	CTG	2679
282	Phe	Phe	Glu	Ser	Ser	Ser	Asp	Gly	Arg	Gly	Phe	Ser	Ile	Gly	Arg	Leu	
283	810							815				820			825		
285	CTT	AAC	CTC	TCG	ATT	CCT	GTG	GGT	GCG	AAA	TTC	GTG	CAG	GGG	GAT	ATC	2727
286	Leu	Asn	Leu	Ser	Ile	Pro	Val	Gly	Ala	Lys	Phe	Val	Gln	Gly	Asp	Ile	
287								830		835			840				
291	GGA	GAT	TCC	TAC	ACC	TAT	GAT	CTC	TCA	GGA	TTC	TTT	GTT	TCC	GAT	GTC	2775
292	Gly	Asp	Ser	Tyr	Thr	Tyr	Asp	Leu	Ser	Gly	Phe	Phe	Val	Ser	Asp	Val	
293								845		850			855				
295	TAT	CGT	AAC	AAT	CCC	CAA	TCT	ACA	GCG	ACT	CTT	GTG	ATG	AGC	CCA	GAC	2823
296	Tyr	Arg	Asn	Asn	Pro	Gln	Ser	Thr	Ala	Thr	Leu	Val	Met	Ser	Pro	Asp	
297								860		865			870				
299	TCT	TGG	AAA	ATT	CGC	GGT	GGC	AAT	CTT	TCA	AGA	CAG	GCA	TTT	TTA	CTG	2871
300	Ser	Trp	Lys	Ile	Arg	Gly	Gly	Asn	Leu	Ser	Arg	Gln	Ala	Phe	Leu	Leu	
301								875		880			885				
303	AGG	GGT	AGC	AAC	AAC	TAC	GTC	TAC	AAC	TCC	AAT	TGT	GAG	CTC	TTC	GGA	2919
304	Arg	Gly	Ser	Asn	Asn	Tyr	Val	Tyr	Asn	Ser	Asn	Cys	Glu	Leu	Phe	Gly	
305	890							895			900			905			
307	CAT	TAC	GCT	ATG	GAA	CTC	CGT	GGG	TCT	TCA	AGG	AAC	TAC	AAT	GTA	GAT	2967
308	His	Tyr	Ala	Met	Glu	Leu	Arg	Gly	Ser	Ser	Arg	Asn	Tyr	Asn	Val	Asp	
309								910		915			920				
311	GTT	GGT	ACC	AAA	CTC	CGA	TTC	TAGATTGCTA	AAACTCCCTA	GTTCTTCTAG	GGAG					3022	
312	Val	Gly	Thr	Lys	Leu	Arg	Phe										
313							925										
315	TTTTCTCATA	CTTTTAGGGA	AATATTTGCT	ATAGGGAATG	CTTTCCCTGC	AAACTGTAAA										3082	
316	AAATAAACATT	TGTCCCTCTT	CAAAAAAGAT	TTCTTTAAT	AATTTCTAGT	TATAATTAA										3142	
317	TTTAAAAAAC	AGTTAAATAA	TTAATAGACA	ATAATCTATT	CTTATTGACT	TCTTTTTT										3200	
319	(2)	INFORMATION FOR SEQ ID NO: 2:															
321	(i)	SEQUENCE CHARACTERISTICS:															
322	(A)	LENGTH: 928 amino acids															
323	(B)	TYPE: amino acid															
324	(C)	STRANDEDNESS: single															
325	(D)	TOPOLOGY: linear															
327	(ii)	MOLECULE TYPE: protein															
329	(v)	FRAGMENT TYPE: internal															
331	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 2:															
333	Met	Lys	Thr	Ser	Ile	Pro	Trp	Val	Leu	Val	Ser	Ser	Val	Leu	Ala	Phe	
334	1						5				10				15		

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/446,677B

DATE: 07/02/2001

TIME: 14:51:19

Input Set : A:\BIRKELUND1.txt

Output Set: N:\CRF3\07022001\I446677B.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:38 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]

L:2475 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]